FLUIDIZATION SEMINAR AND WORKSHOP BANGKOK, THAILAND OCTOBER $8^{\text{TH}} - 11^{\text{TH}}$, 2024

TUESDAY			
8:00 AM	REGISTRATION		
8:15 AM	INTRODUCTION TO PSRI AND ITS TECHNICAL PROGRAMS		
8:30 AM	A. INTROE	INTRODUCTION AND OVERVIEW	
	1.	INTRODUCTION, TERMINOLOGY, AND PARTICULATE PROPERTIES	
	2.	FLUIDIZATION REGIMES AND TRANSITIONS	
10:30 AM	BREAK		
10:45 AM	3.	HYDRODYNAMICS OF FLUIDIZED BEDS	
		■ EFFECTS OF TEMPERATURE AND PRESSURE	
12:00 PM	LUNCH (PROVI	LUNCH (PROVIDED)	
12:45 PM	4.	GAS AND SOLIDS MIXING	
2:45 PM	BREAK		
3:00 PM	5.	GAS SOLIDS CONTACTING, REACTION, MODELLING AND SCALE-UP	
	6.	HEAT TRANSFER	
5:00 PM	ADJOURN		

PAGE 1 OF 4 BANGKOK 2024 – V1

WEDNESDAY

8:00 AM	В.	OVERVIEW OF INDUSTRIAL APPLICATIONS
9:00 AM	C.	GRIDS – GAS DISTRIBUTORS
		 INTRODUCTION TO GRIDS (PRESSURE DROP ACROSS GRID) DESIGN OF VARIOUS TYPES OF GRIDS PERFORATED PLATE PIPE/SPARGER EFFECT OF SHROUDS
10:00 AM	BREAK	
10:15 AM	C.	GRIDS – GAS DISTRIBUTORS (CONTINUED)
		 JET PENETRATION EFFECTS OF TEMPERATURE AND PRESSURE
11:30 AM	D.	WORKSHOP ON GRID DESIGN
12:00 PM	LUNCH	H (PROVIDED)
1:00 PM	E.	PARTICLE ENTRAINMENT & ELUTRIATION
		 INTRODUCTION MECHANISMS OF EJECTION INTO FREEBOARD SOLID FLUX PROFILE AND TDH ENTRAINMENT CORRELATION FOR BUBBLING & TURBULENT BEDS
2:00 PM	BREAK	
2:15 PM	E.	PARTICLE ENTRAINMENT & ELUTRIATION (CONTINUED)
		 EFFECTS OF GEOMETRY ENTRAINMENT FROM RISERS EFFECTS OF TEMPERATURE AND PRESSURE
2:45 PM	F.	WORKSHOP ON ENTRAINMENT
		FCC/POLYETHYLENE EXAMPLES
3:15 PM	G.	CYCLONE DESIGN
		 PRINCIPLE OF OPERATION NON-UNIFORM CYCLONES
5:00 PM	ADJOU	JRN

PAGE 2 OF 4 BANGKOK 2024 – V1

THURSDAY

8:00 AM G. CYCLONE DESIGN (CONTINUED)

- DIPLEG PRESSURE BALANCE
- FLAPPER & TRICKLE VALVES
- EFFECT OF DIFFERENT CONFIGURATIONS
- EFFECTS OF TEMPERATURE AND PRESSURE
- DESIGN PROCEDURE
- COLLECTION EFFICIENCY

9:30 AM BREAK

9:45 AM H. WORKSHOP ON CYCLONES

CYCLONE VIDEOS

10:30 AM I. STANDPIPES

- THEORY OF OPERATION
- TYPES OF STANDPIPES
- AERATION EFFECTS
- STANDPIPE CAPACITY
- ANGLED STANDPIPES

12:00 PM LUNCH (PROVIDED)

1:00 PM I. STANDPIPES (CONTINUED)

- STRIPPING
- NON-MECHANICAL VALVES
- STANDPIPE CALCULATIONS

2:15 PM BREAK

2:45 PM I. STANDPIPES (CONTINUED)

5:00 PM ADJOURN

PAGE 3 OF 4 BANGKOK 2024 – V1

FRIDAY	
8:00 AM	J. DILUTE-PHASE PNEUMATIC CONVEYING AND CIRCULATING FLUIDIZED BEDS VERTICAL & HORIZONTAL FLOW PHASE DIAGRAMS PRESSURE DROP CALCULATIONS CALCULATION OF CHOKING, SALTATION, AND SLIP VELOCITIES FAST FLUIDIZATION, CIRCULATING FLUIDIZED BEDS BENDS BENDS EFFECT OF DIAMETER FEFECT OF PRESSURE FEEDING CONSIDERATIONS
10:00 AM	BREAK
10:15 AM	 K. DENSE-PHASE PNEUMATIC CONVEYING PACKED BED, FLUIDIZED-BED FLOW SLUG FLOW SELECTION OF EQUIPMENT TYPE
12:00 PM	LUNCH (PROVIDED)
1:00 PM	 L. PARTICLE ATTRITION TYPES OF ATTRITION ATTRITION TESTING AND MODELING
2:00 PM	 M. MODELING GRANULAR-FLUID SYSTEMS TYPES OF MODELS COMMON PITFALLS
2:45 PM	BREAK
3:00 PM	M. MODELING GRANULAR-FLUID SYSTEMS (CONTINUED)

4:00 PM CONCLUSION OF SEMINAR

PAGE 4 OF 4 BANGKOK 2024 – V1